

ANALISIS KADAR TIMBAL (Pb), KADMIUM (Cd) DAN DAMPAK KESEHATAN KONSUMSI GORENGAN PINGGIRAN JALAN KECAMATAN TALLO

Analysis of Lead (Pb), Cadmium (Cd) Level and Health Impact From Fried Snacks Consumption on Roadside of Tallo

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ABSTRAK

Pada kawasan jalan raya, kendaraan bermotor adalah sumber pencemaran terbesar logam berat di lingkungan. Logam berat dapat masuk ke dalam tubuh melalui makanan jajanan yang dijual dan diolah di pinggir jalan dalam keadaan terbuka. Penelitian ini bertujuan untuk mengetahui kadar timbal (Pb) dan kadmium (Cd) serta potensi dampak kesehatan dari konsumsi jajanan gorengan pinggir jalan Kecamatan Tallo Kota Makassar. Jenis penelitian yang digunakan adalah penelitian observasional dengan rancangan deskriptif. Populasinya adalah semua jajanan gorengan yang dijual di pinggir jalan raya Kecamatan Tallo Kota Makassar dan pengambilan sampel dilakukan secara *purposive sampling* pada 7 penjual gorengan dengan jenis gorengan bakwan goreng. Hasil penelitian diperoleh kadar timbal (Pb) yang terdapat dalam sampel berkisar antara 0,057 mg/kg - 1,537 mg/kg dan kadar kadmium (Cd) berkisar antara 0,011 mg/kg - 0,064 mg/kg. Responden yang mengalami keluhan kesehatan adalah sebanyak 41 orang (58,6%) berisiko mengalami gangguan kesehatan akibat paparan logam berat timbal (Pb) dan kadmium (Cd). Semua sampel yang diperiksa telah tercemar logam berat timbal (Pb) dan kadmium (Cd) yaitu ada yang masih memenuhi syarat dan ada yang tidak memenuhi syarat sesuai dengan Keputusan Dirjen POM Nomor HK.00.06.1.52.4011 Tahun 2009. Hal ini akan menimbulkan dampak kesehatan bila dikonsumsi secara terus-menerus.

Kata kunci: Jajanan gorengan, Pb, Cd

ABSTRACT

In highway, motor vehicles is the largest source of heavy metal pollution in environment. Heavy metals could enter into the body through food fried snacks that sold and processed in roadside with an open state. This research aims to determine the levels of lead (Pb) and cadmium (Cd) and also health impact potential from food fried snacks consumption on roadside Tallo subdistrict Makassar City. The type of this research was observational with descriptive design. Population was all of food fried snacks that sold at the roadside Tallo subdistrict Makassar city and sampling was taken by purposive sampling on 7 food fried snacks seller which was vegetable fritter fries. Result of this research was level of lead (Pb) in sampel was 0,057 mg/kg - 1,537 mg/kg and cadmium (Cd) was about 0,011 mg/kg - 0,064 mg/kg. Respondents who suffered health complaints were about 41 people (58,6%) had risk to get health problem because lead (Pb) and cadmium (Cd) exposure. All of samples were polluted by lead (Pb) and cadmium (Cd) but there were samples that still qualified and also there unqualified according to Decision of the General Director of Food and Medicine Supervisor (POM) Number HK.00.06.1.52.4011 in 2009. It will be cause health impact if consumed continuously.

Keyword: Fried snacks, Pb, Cd